

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[CTGCAGTCTATTGGATGAAGAGTGTACATATTCATATAATTCTTAAAGTAGGCAGAAAT
TAAAGGGGATGGAAATATATACTTGTACTGCCTTAGATAGTCACCAGGATGTTGTTACAG
TCTTCGTTTACTGCTTCTGAAGCCTATACTGATAGAATTAATAAAATACTGAGAGAGAGA
GAGAGGGACAGAGAGAGAGAGGGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
GAGAGAGAGAGAGAAGAGAAGAAAACAAGGTSAAGCCATCTGCTTAACCTATGTCCACAT
TCTCTCAAGAGCATTGTCCATTTTGTAGAATTATCTATATTGTTAAGAATCATCTCCATT
GTTAAGATTTTGTGGGCTGGAGATCCAGCTCTGTTGATAAAGTGCTTGCCTAACATGCAT
GAAGTCCTAGGTTCTATTCCCAAGGCTACATAAAACCTTGTGTTGTGATGAATGCCTGTA
ATCCCAGTACGCAGCAAGGAGAGACAAGGAGGATCAGAAGCTTAAGGACATCATTTTGTA
CATAGTGAGTTTGTAGGAAAGCTGAGGTTACATGGAACCTCTCTCTCTCAAAAAACAAAC
AAAACAAAACAAAACCTTCTACTAATATCTGGATTCTGTTGATTTTGTAGGATCTCAAG
AGCATGCTGACGTCATTTATGTGTTTCCATCAGATACAGACAGAGATCATAAACATTTAA
CTCATTGATTATATGTTGAGAGTTGTCCCTCAAGAACCAATGGCCAAACATCCACTGAGG
ATACACGGAAGCTTAGAAAACTCTAATTAAAACTCTGACATAATGGAAGTGCTCACAAA
CCAGCC] AACACCTAATAAAACCAGTGCGCAAGAGCAACAACCTCGGCATTTTCTATG
AATCCTGCCAACCCCTTTTCTAGCCATACTCTTGCTACTCATAGCATATACTGTGATCC
TAATCATGGGCATTTTGTGAAACCTCTCTCTTATCATCATCATCTTTAAGAAACAGAGAG
AAGCTCAAAATGTTACCAACATACTGATT [GCCAACCTGTCCCTCTCTGACATCTTGGTG
TGTGTCATGTGCATCCCTTTTACGGTCATCTACACTCTGATGGACCACTGGGTATTTGGG
AACACTATGTGTAAACTCACTTCTACGTGCAAAGTGTCTCAGTTTCTGTGTCCATATTC
TCCCTTGTGTTGATTGCTATTGAACGATATCAGCTGATTGTGAACCCCGTGGCTGGAAA
CCCAGAGTAGCTCATGCCTATTGGGGGATCATCTTGATTGGCTCATTTCTCTGACATTG
TCTATTCCTTATTCCTGTCTACCACTCACCAATGAGCCCTTTCATAATCTCTCTCTC
CCTACTGACATCTACACCCACCAGGTAGCTTGTGTGGAGATTTGGCCTTCTAAACTGAAC
CAACTCCTCTTTTCTACATCATTATTTATGCTCCAGTATTTTGTCCCTCTGGGTTTCATT
CTTATCTGCTACCTGAAGATCGTTCTCTGCCTCCGAAAAAGAACTAGGCAGGTGGACAGG
AGAAAAGGAAAAATAAGAGCCGTCTCAATGAGAACAAGAGGGTAAATGTGATGTTGATTTC
ATCGTAGTGACTTTTGGAGCCTGCTGGTTGCCCTTGAACATTTTCAATGTCATCTTCGAC
TGGTATCATGAGATGCTGATGAGCTGCCACCACGACCTGGTATTTGTAGTTTGCCACTTG
ATTGCTATGGTTTCTACTTGCATAAATCCTCTCTTTTATGGATTTCTCAACAAAACTTC
CAGAAG] GATCTAATGATGCTTATTCACCACTGTTGGTGTGGTGAACCTCAGGAAAGTTA
TGAAAAATATGCCATGTCTACTATGCACACAGATGAATCCAAGGGATCATTTAAACTGGC
TCACATACCAACAGGCATATAGAACTGGTAAGCAAAATCAAAGCCCTTCTGTTATGAAA
GAAAGAGAAGAAATAGTATGGAATAGGGCAAGGTGCAGAGGAAGCCAGACTTAAACACAT
AATATCTTTGGGCCAGTTTGTCTTAAAGTTAAGCATGTCTACTCCATTTCAGCCATAGAA
CACACAGAGATTTATCCCTACCTTTCTTTTTTCTTTTGAAGAATAATACTTAAACA
ACCTAGACATCATTACTGAGGAAGAGAAACAAAATGAGAGAGCATACAAGGACAGCAGAG
ATGTCCTGGGGTACAAAATTCACGTTATTGCTGGAATAGCTAGAAAGTTATTAGTTGTGC
TGCAG

FIGURE 2A

Gene Sequence Structure

*

846 bp

Sequence Deleted

1047 bp

Size of CDS: 2281 bp

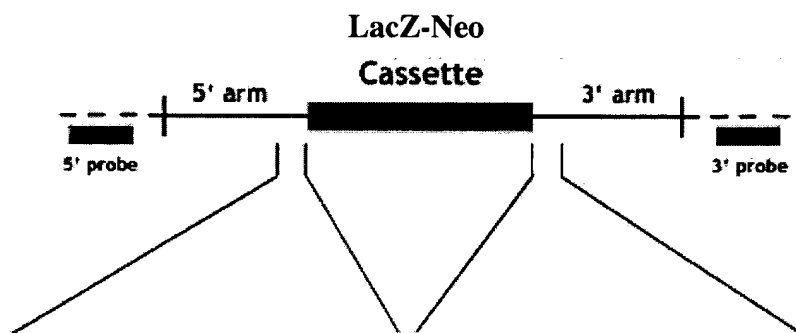
Targeting Vector* (genomic sequence)

Construct Number: 2762

Arm Length:

5': 5 kb

3': 0.5 kb



09900497 070601

Targeting Vector

Endogenous Locus

Not drawn to scale

5'>TTTAGGATCTCAAGAGCATGC
TGACGTCATTTATGTGTTCCATC
AGATACTGACAGAGATCATAAACA
TTTAACTCATTGATTATATGTTGA
GAGTTGTCCCTCAAGAACCAATGG
CCAAACATCCACTGAGGATACACG
GAAGCTTAGAAAATCTCTAATTAA
AATCCTGACATAATGGAAGTGCTC
ACAAACCAGCC<3'
(SEQ ID NO:2)

5'>GCCAACCTGTCCCTCTCTGAC
ATCTTGGTGTGTGTCATGTGCATC
CCTTTTACGGTCATCTACACTCTG
ATGGACCACTGGGTATTTGGGAAC
ACTATGTGTAAACTCACTTCCTAC
GTGCAAAGTGTCTCAGTTTCTGTG
TCCATATTCTCCCTTGTGTTGATT
GCTATTGAACGATATCAGCTGATT
GTGAACCCCCG<3'
(SEQ ID NO:3)

FIGURE 2B